## Amendments to the Claims

Please amend claims to be as follows.

- (currently amended) A method of load balancing between a plurality of routers <u>by automated resetting of gateways</u>, the method comprising: receiving a packet at a <u>first</u> router from a source host to be forwarded <del>via</del> a <u>gateway</u> to a destination host;
  - applying an algorithm at the <u>first</u> router to select a <u>second router to be a</u>

    <u>next</u> gateway for the source host for packets destined to the

    destination host; and
  - sending an ICMP redirect message from the <u>first</u> router to the source host to reset [[the]] <u>a default</u> gateway of the source host <u>to be the</u>

    <u>second router</u> for packets destined to the destination host.
- 2. (original) The method of claim 1, wherein the algorithm comprises a pseudorandom algorithm.
- 3. (original) The method of claim 1, wherein the algorithm selects the next default gateway using a round robin type selection process.
- 4. (original) The method of claim 1, wherein the algorithm comprises a hash function,, wherein an output of the hash function returns an index of a router to be used to route subsequent packets with a same hash value.
- (original) The method of claim 4, wherein the hash function is a function of any combination of the IP addresses of the destination and source hosts of the packet.

- 6. (original) The method of claim 1, wherein the algorithm is load based, and further comprising communicating load levels amongst the plurality of routers.
- 7. (currently amended) An apparatus for routing packets <u>with a load balancing</u> <u>capability involving automated resetting of gateways</u>, the apparatus comprising:
  - a receiver configured to receive a packet from a source host to be forward to a destination host;
  - a selection module configured to apply an algorithm to select <u>another</u>

    <u>router to be</u> a next gateway of the source host for packets destined to the destination host; and
  - a transmission module configured to send an ICMP redirect message to the source host to reset a current gateway of the source host to be said other router for packets destined to the destination host.
- 8. (original) The apparatus of claim 7, wherein the selection module comprises a pseudo-random number generator.
- 9. (original) The apparatus of claim 7, wherein the selection module applies a round-robin type algorithm to select the next gateway.
- 10. (original) The apparatus of claim 7, wherein the selection module applies a hash function.
- 11. (currently amended) The apparatus of claim 10, wherein the hash function is a function of [[the]] a source IP address.

- 12. (original) The apparatus of claim 10, wherein the hash function is a function of a combination of the source and destination IP addresses.
- 13. (original) The apparatus of claim 7, wherein the apparatus is configured to communicate load levels to and receive load levels from other routing apparatus, and wherein the selection module applies a load-based algorithm.
- 14. (original) The apparatus of claim 13, wherein the load-based algorithm comprises a weighted hash algorithm.
- 15. (original) The apparatus of claim 13, wherein the load-based algorithm comprises a weighted round robin algorithm.
- 16. (original) The apparatus of claim 13, wherein the load-based algorithm comprises a pseudo-random algorithm.
- 17. (currently amended) A method of load balancing between a plurality of routers by automated selection of a router to respond to an ARP request, the method comprising:
  - receiving an address resolution protocol (ARP) request at the plurality of routers from a requesting host from a source IP address in relation to a destination IP address;
  - applying an algorithm at each router to determine which single router is to respond to the <u>ARP</u> request; and
  - sending an ARP reply from the responding router to the requesting host.

- 18. (original) The method of claim 17, further comprising forwarding a packet from the source IP address to the destination IP address.
- 19. (original) The method of claim 17, wherein the algorithm comprises a hash function.
- 20. (original) The method of claim 19, wherein the hash function is a function of the source and destination IP addresses.
- 21. (original) The method of claim 17, wherein the algorithm determines the responding router using a round robin type selection process.
- 22. (original) The method of claim 17, wherein the algorithm is load based, and further comprising communicating load levels amongst the plurality of routers.
- 23. (currently amended) A system of load balancing between a plurality of routers <u>involving automated selection of a router to respond to an ARP request</u>, the system comprising:
  - means for receiving an address resolution protocol (ARP) request at the plurality of routers from a requesting host from a source IP address in relation to a destination IP address;
  - means for applying an algorithm at each router to determine which single router is to respond to the <u>ARP</u> request; and

means for sending an ARP reply from the responding router to the requesting host.